

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
27 October 2005 (27.10.2005)

PCT

(10) International Publication Number
WO 2005/101753 A1(51) International Patent Classification⁷: H04L 12/56.
29/08, 29/06(21) International Application Number:
PCT/EP2004/050533

(22) International Filing Date: 15 April 2004 (15.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): TELEFONAKTIEBOLAGET LM ERICSSON (publ) [SE/SE]; S-164 83 Stockholm (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): JOKELA, Petri Aulis [FI/FI]; Säterinkatu 7A1, FIN-02600 Espoo (FI). NIKANDER, Pekka [FI/FI]; Suvannontie 12 A 1, FIN-00510 Helsinki (FI). SALMELA, Patrik Mikael [FI/FI]; Hevoskita 21, FIN-02410 Kirkkonummi (FI). ARKKO, Jari [FI/FI]; Kauppalaite 25 A 7, FIN-02700 Kauniainen (FI). YLITALO, Jukka [FI/FI]; Otsolahtentie 16 B 87, FIN-02110 Espoo (FI).

(74) Agents: BREWER, Michael et al.; Marks & Clerk, 4220 Nash Court, Oxford Business Park South, Oxford Oxfordshire OX4 2RU (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

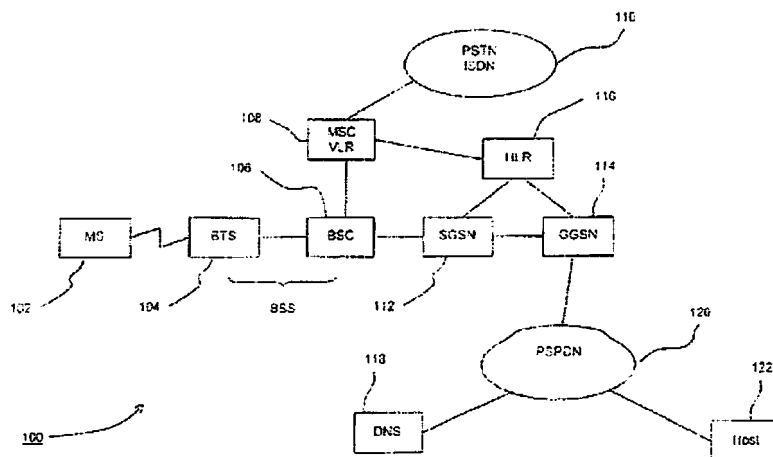
— with international search report

(48) Date of publication of this corrected version:

18 May 2006

[Continued on next page]

(54) Title: IDENTIFICATION METHOD AND APPARATUS FOR ESTABLISHING HOST IDENTITY PROTOCOL (HIP) CONNECTIONS BETWEEN LEGACY AND HIP NODES



(57) Abstract: A method is provided of using the Host Identity Protocol (HIP) to at least partially secure communications between a first host (102) operating in a first network environment and a second, HIP-enabled, host (122) operating in a second network environment, with a gateway node (114) forming a gateway between the two environments. In the method, an identifier is associated with the first host (102), stored at the gateway node (114), and sent to the first host (102). The identifier is then used as a source address in a subsequent session initiation message sent from the first host (102) to the gateway node (114), having an indication that the destination of the message is the second host (122). The stored identifier at the gateway node is then used to negotiate a secure HIP connection to the second host. The first network environment may be a UMTS or GPRS environment, in which case the gateway node may be a Gateway GPRS Support Node (GGSN).

WO 2005/101753 A1